

Amendments to the Claims

1. (Cancelled)

2. (Currently Amended) The method of Claim 3, wherein determining, in the action plug-ins, one or more actions based on the markup language data comprises:

for each markup language element of the markup language data, parsing a namespace library for equivalent markup language elements that include the one or more labels;
obtaining one or more actions associated with the equivalent markup language elements for displaying with the plurality of actions received from the plurality of action plug-ins.

3. (Currently Amended) A computer-readable medium which stores a set of instructions which when executed performs a method for creating, editing and/or viewing an electronic document, actions on a string of text or data in the electronic document, the method comprising:

receiving a text string that includes at least one annotated portion and at least one unannotated portion with markup language data in a recognizer dynamic link library (DLL);

parsing markup language data associated with the at least one annotated portion to assist the recognizer DLL to determine one or more labels for the at least one unannotated portion of the text string[[:]] by:

comparing the elements of the markup language data with a plurality of stored markup language elements associated with stored labels to determine a match; and

if a one or more markup language elements matches one or more stored markup language elements associated with stored labels, then labeling the text string with the associated stored label of the matched one or more markup language elements;

transmitting the text string, ~~and~~ the markup language data, and the one or more labels associated with at the least one annotated and the at least one unannotated portions to a plurality of action plug-ins, wherein the action plug-ins are determined based on the one or more labels;

determining, in the action plug-ins, one or more actions based on the markup language data and the one or more labels;

passing the one or more actions to an application program module for displaying the one or more actions in association with the text string; and
displaying the one or more actions in association with the text string.

4. (Cancelled)

5. (Currently Amended) The method of Claim 3, wherein ~~the step of parsing the text string~~ the markup language data to determine one or more labels comprises:

comparing the text string with a plurality of stored text string with an associated stored label to determine a match; and

if a the text string matches a stored text string with an associated label, then labeling the text string with the associated stored label of the matched stored text string[[]] .

~~comparing the elements of the markup language data associated with the text string with a plurality of stored markup language elements associated with associated stored labels to determine a match; and~~

~~if a one or more markup language elements associated with the text string matches one or more stored markup language elements with associated stored labels, then labeling the text string with the associated stored label of the matched one or more markup language elements.~~

6. (Cancelled)

7. (Previously Presented) The method of Claim 3, further comprising modifying the content of an electronic document to reflect the one or more labels.

8. (Previously Presented) The method of Claim 7, further comprising:
causing the application program module to fire an event within an object model of the application program module;
causing software instructions associated with the event to be executed when at least one of the plurality of labels is determined.

9. (Previously Presented) The method of Claim 3, further comprising examining the content of the electronic document surrounding the text string to aid in parsing the text string to determine a plurality of labels.

10. (Cancelled)

11. (Currently Amended) A method for labeling a string of text in an electronic document as the electronic document is created in an application program module, the method comprising:

as a string of text having an associated one or more Extensible Markup Language (XML) elements is entered into the electronic document, determining whether the string of text matches one of a plurality of stored strings;

if so, then designating a label associated with the matched stored string for application to the entered string of text, wherein the label is to be transmitted to one or more action plug-ins for determining a set actions associated with the string of text, and wherein the action plug-ins to receive the label are also determined based on the label;

if the string of text does not match one of a plurality of stored strings, determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text utilizing at least one label associated with another string in the electronic document; ~~and~~

if so, then designating a label associated with the one or more XML elements for application to the entered string of text;

displaying an indication indicating that the label has been found for the string of text.

12. (Currently Amended) The method of Claim 11, further comprising:

if a label associated with the matched stored string is designated for application to the entered string of text, determining ~~[[*]]~~ the set of actions associated with the label associated with the matched stored string; and

if a label associated with the one or more XML elements is designated for application to the entered string of text, determining ~~[[*]]~~ the set of actions associated with the label associated with the one or more XML elements.

13. (Original) The method of Claim 12, whereby determining a set of actions associated with the label associated with the one or more XML elements, further comprises:

for each label associated with the one or more XML elements, parsing a namespace library for equivalent markup language elements;

obtaining zero or more actions associated with the equivalent XML elements for combining with the set of actions associated with the label associated with the matched stored string.

14. (Cancelled)

15. (Currently Amended) The method of Claim 13, further comprising ~~the steps of:~~
determining that a user has selected the string of text; and
in response, displaying the combined set of actions to the user.

16. (Currently Amended) The method of Claim 15, further comprising ~~the steps of:~~
receiving an indication that one of the plurality of actions has been selected; and
in response to receiving an indication that one of the plurality of actions has been selected, then causing the application program module to execute the selected action.

17. (Previously Presented) The method of claim 11, further comprising:
determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text based on a label associated with another string of text adjacent to the string of text.

18. (Currently Amended) The method recited in Claim 16, wherein the application program module executes the selected action by determining whether an action plug-in among the one or more action plug-ins in an action dynamically linked library assigned to the action is available; and

if so, then receiving instructions from the action dynamically linked library assigned to the selected action.

19. (Currently Amended) The method recited in Claim 18, further comprising ~~the~~ steps of:

if an action plug-in dynamic link library is not available, then using a Uniform Resource Locator assigned to the action to navigate to a Web site and download the action plug-in dynamic link library.

20. (Cancelled)

21. (Currently Amended) A system for providing helpful actions on a string of text in an electronic document as the string is entered into the electronic document, the system comprising:

a memory storage; and

a processing unit coupled to the memory storage, wherein the processing unit is configured to execute:

an application program module for creating the electronic document;

an action dynamically linked library connected to the application program module operative to provide one or more actions associated with one or more markup language elements applied to the string of text;

a namespace library associated with the application program module for providing one or more equivalent markup language elements that have been designated as equivalent to the one or more markup language elements applied to the string of text in the electronic document;

at least one recognizer dynamically linked library for providing semantic labeling to one or more portions of the string of text based on the one or more markup language elements applied to the string of text and based on one or more markup language elements associated with other strings of text in the electronic document, wherein the at least one recognizer dynamically linked library is operative

to receive the string of text,

to receive the one or more markup language elements applied to the string of text in the recognizer dynamically linked library,

to transmit the string of text and associated markup language elements to a plurality of recognizer plug-ins based on the semantic labels, and
wherein the action dynamically linked library is further operative to provide additional one or more actions associated with the one or more equivalent markup language elements.

22. (Currently Amended) The system of Claim 21, wherein
~~the recognizer dynamically linked library is operative~~
~~to receive the string of text;~~
~~to receive the one or more markup language elements applied to the string~~
~~of text in the recognizer dynamically linked library;~~
~~to transmit the string of text and associated markup language elements to a~~
~~plurality of recognizer plug-ins;~~
the plurality of recognizer plug-ins being operative
to parse the string of text to determine a plurality of labels;
to parse the associated markup language elements to assist each of the
plurality of recognizer plug-ins to determine a plurality of labels for the string of text;
to transmit the plurality of labels to the recognizer dynamically linked
library; and
the recognizer dynamically linked library being further operative to transmit the
plurality of labels and the associated markup language data to the application program module.

23. (Previously Presented) The system of Claim 22,
wherein recognizer dynamically linked library is further operative prior to
transmitting the plurality of labels from the recognizer plug-ins to the recognizer dynamically
linked library, to transmit the string of text, the associated markup language elements and the
plurality of labels back to the plurality of recognizer plug-ins; and
the plurality of recognizer plug-ins being further operative to parse the string of
text, the associated markup language elements and the plurality of labels to determine a plurality
of labels for the string of text not previously determined for the string of text.

24. (Previously Presented) The method of claim 17, wherein the label associated with the string of text is an “address” label and the label associated with the other string of text is a “ZIP code” label.